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PPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/910,854	- "	07/24/2001	Isao Nakatani	2001_1048A 4033	
513	7590	03/11/2003			
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.				EXAMINER	
SUITE 800	EEI IV. W	٧.	UMEZ ERONINI, LYNETTE T		
WASHINGTON, DC 20006-1021					
				ART UNIT	PAPER NUMBER
				1765	7
				DATE MAILED: 03/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.	Applicant(s)	111
	Office Action Survey	09/910,854	NAKATANI ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Lynette T. Umez-Eronini	1765	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address -	
- Externafter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. MAILING DATE OF THIS COMMUNICATION. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing ad palent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) dwill apply and will expire SIX (6) MONTHS fro	timety filed ays will be considered timely. on the mailing date of this communication	n.
1)	Responsive to communication(s) filed on	· ·		
2a)⊠		is action is non-final.		
3) <u> </u>	Since this application is in condition for allowa closed in accordance with the practice under <i>l</i> on of Claims	nce except for formal matters	prosecution as to the merits 453 O.G. 213.	is
4)⊠	Claim(s) 1-35 is/are pending in the application.			
•	4a) Of the above claim(s) <u>6-35</u> is/are withdrawn	from consideration.		
5) 🗌	Claim(s) is/are allowed.			
6)🛛	Claim(s) <u>1-5</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8) \	Claim(s) <u>6-35</u> are subject to restriction and/or e	lection requirement.		
pplication	on Papers	·		
9)□ 1	he specification is objected to by the Examiner.	•		
10)∐ T	he drawing(s) filed on is/are: a) accept	ted or b) objected to by the Exa	aminer.	
_	Applicant may not request that any objection to the			
11)[] T	he proposed drawing correction filed on		oved by the Examiner.	
_	If approved, corrected drawings are required in repl			
	he oath or declaration is objected to by the Exa	miner.		
iority u	nder 35 U.S.C. §§ 119 and 120			
13) 🗌 📝	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).	
a)[All b) Some * c) None of:			
•	1. Certified copies of the priority documents	have been received.		
2	2. Certified copies of the priority documents	have been received in Applicat	ion No	
	B. Copies of the certified copies of the priorit application from the International Bure se the attached detailed Office action for a list of	y documents have been receive eau (PCT Rule 17.2(a))	ed in this National Stage	
	knowledgment is made of a claim for domestic			nn)
a)	☐ The translation of the foreign language proveknowledgment is made of a claim for domestic	isional application has been red	ceived.	,,,,.
tachment(:		,		
■ Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>6</u> .	4) Interview Summar 5) Notice of Informal 6) Other:	y (PTO-413) Paper No(s) Patent Application (PTO-152)	
atent and Trac -326 (Rev.	0.4.043	on Summary	Part of Paner No. 7	 -

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DETAILED ACTION

Election/Restrictions

1. Newly submitted claims 6-35 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: Unlike the original claims 1-3 and newly amended claims 4 and 5, which are drawn to masking material, classified in class 252/79.1, claims 6-35 are drawn to a method of making a TMR (tunneling magneto resistance), which is classified in 216/22.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 6-35 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Harkin et al. (US 5,705,413).

As pertaining to claims 1-5, Harkin teaches an inorganic masking pattern **21** may be a metal such as tantalum or tungsten (column 7, lines 63-65), which reads on a masking material, which comprises a metal as in claim 1; wherein the metal is tantalum,

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as in claim 2; wherein the metal is tungsten, zirconium or hafnium, as in claims 3 and 5; and which comprises a metal other than tantalum, as in claim 4. Since Harkin's masking pattern is the same masking material as that of the claimed invention, then using Harkin's masking pattern would inherently result in a metal having a specific physical property that it melting or boiling point, when it is converted into a nitride or carbide is higher than that of in the form of single metal, as in claims 1 and 4.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynette T. Umez-Eronini whose telephone number is 703-306-9074. The examiner is normally unavailable on the First Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Utech can be reached on 703-308-3836. The fax phone numbers for the organization where this application or proceeding is assigned are 703-972-9310 for regular communications and 703-972-9311 for After Final communications.

Itue March 7, 2003

> BENJAMIN L. UTECH SUPERVISORY PATENT EXAMINER

SUPERVISORY PATENT EXAMINES
TECHNOLOGY CENTER 1700